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EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 57079210
PUBLICATION DATE : 18-05-82

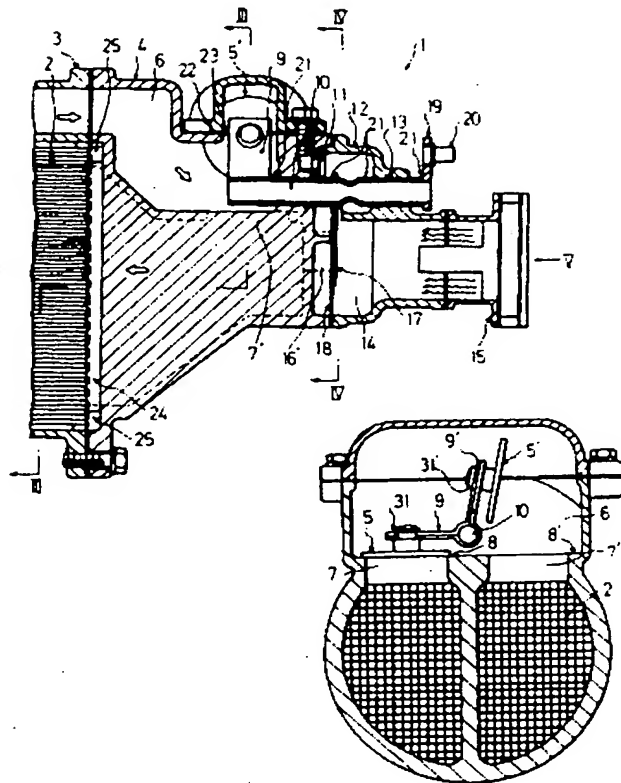
APPLICATION DATE : 05-11-80
APPLICATION NUMBER : 55154574

APPLICANT : TOYOTA MOTOR CORP;

INVENTOR : KATO KEIGO;

INT.CL. : F01N 3/02 F01N 3/18

TITLE : COMBUSTION DEVICE FOR FINE PARTICLES IN EXHAUST GAS



ABSTRACT : PURPOSE: To renew a filter for collection of fine particles in exhaust gas while using only one burner without difficulty by turning the flame switching valve for regenerating burner into operation in linkage with the exhaust route switching valve under regeneration of the filter.

CONSTITUTION: Exhaust gas from a Diesel engine is led through a passage 6 and into the open side of parallelly arranged filter selector valves 5, 5' to be got rid of fine particles. When the filter 2 is in stoppage on its either side, a pin 20 on a lever 19 is operated and a shaft 10 is rotated to invert the open-closed positions of the selector valves 5, 5'. Thus the route of exhaust flow is changed over. Because a flame selector valve 17 is fixed to the shaft 10, the valve 17 also operates while the valve 5 is in operation to introduce the flame at a regenerating burner 15 installed at the end of the filter to that filter situated on the side with no exhaust gas flowing into. The burner 15 is mounted separately at the end of the filter.

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